

Claims

1. A plug (1) of a coaxial plug-in connection, which can be joined to a cable (5) and a corresponding coupler, especially an antenna plug, with an outer conductive sleeve (3) made of a conductive material and an insulator (8) disposed within a plug sleeve area of the outer conductive sleeve (3) having a contact pin (9), characterized in that a seal element (7) is disposed between the outer conductive sleeve (3) and the outer sheath of the cable (5) at the end facing away from the contact pin (9) and that the plug sleeve (4) has a seal (10) or a seal surface.

2. The plug (1) of a coaxial plug-in connection according to claim 1, characterized in that the seal (10) is disposed at its end of the plug sleeve (4) facing the cable (5) and that the seal surface is provided at the free end of the plug sleeve (4).

3. The plug (1) of a coaxial plug-in connection according to one of the claims 1 or 2, characterized in that the seal (10) is formed as a seal ring having a ring surface (11) with a reduced diameter facing the free end of the plug sleeve (4).

4. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the

seal (10) is disposed on the outer periphery of the plug sleeve (4) and is attached to a seal surface of a plug-in sleeve of a coupler.

5. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that on the outer periphery of the plug sleeve (4) a contact sleeve (12) is disposed attached to the plug-in sleeve of the coupler.

6. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the outer conductive sleeve (3) is placed in a holder (2), wherein the holder (2) has a locking slider (18) engageable behind a bulge-like enlargement (13) on the outer conductive sleeve (3).

7. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the seal element (7) overlaps the outer conductive sleeve (3) and is attached seal up to the holder (2).

8. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the outer conductive sleeve (3) has a shoulder (14) attached to a restriction (15) at the holder (2).

9. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the

locking slider (18) has two fingers (17) reaching through openings (16) in the holder (2) up to both sides of the bulge-like enlargement (13) on the outer conductive sleeve (3).

10. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the locking slider (18) has a support body (25) on which the fingers (17) are mounted, wherein at the support body further at least two clips (19) are provided corresponding to recesses (20) at the holder (2).

11. The plug (1) of a coaxial plug-in connection according to claim 10, characterized in that several recesses (20) disposed in series in the locking direction are provided.

12. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that a seal (21) is provided at the support body (25) and/or at one support surface of the holder (2) facing the support body.

13. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the seal (21) is formed as a seal ring disposed in a groove of the support body (25) or the support surface.

14. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the holder (2) has on its surface facing the support body (25) a recess (26) corresponding in about to the thickness and the outer contour of the support body (25).

15. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the holder (2) has a plug neck (22) attached to a coupling guide of a holder of the coupler, wherein the plug neck (22) has a seal ring (23) or a seal surface.

16. The plug (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the holder (2) has a locking element (24) attached to a locking counter part at the holder of the coupler.

17. A coupler (1) of a coaxial plug-in connection, which can be joined to a cable (5) and a corresponding plug, especially an antenna coupler, with an outer conductive sleeve (3) made of a conductive material and an insulator (8) disposed within a plug-in sleeve area of the outer conductive sleeve (3) having a contact element (9), characterized in that a seal element (7) is disposed between the outer conductive sleeve (3) and the outer sheath of the cable (5) at the end facing away from the contact element (9) and that the plug-in sleeve (4) has a seal surface (10) or a seal.

18. The coupler (1) of a coaxial plug-in connection according to claim 17, characterized in that the seal surface (10) is disposed at the free end of the plug-in sleeve (4) and that the seal is provided at its end of the plug-in sleeve (4) facing the cable (5).

19. The coupler (1) of a coaxial plug-in connection according to one of the claims 17 or 18, characterized in that the seal surface (10) has an outer chamfer (11), a ring surface (12) and an inner chamfer (13).

20. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the seal surface (10) is disposed inside the plug-in sleeve (4) and attached to a seal at a plug sleeve of the plug.

21. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that within the plug-in sleeve (4) a contact sleeve (14) is placed attached to the plug sleeve of the plug.

22. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the outer conductive sleeve (3) is placed in a holder (2), wherein the holder (2) has a locking slider (21) engageable behind a bulge-like enlargement (15) on the outer conductive sleeve (3).

23. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the seal element (7) overlaps the outer conductive sleeve (3) and is attached seal up to the holder (2).

24. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the outer conductive sleeve (3) has a shoulder (17) attached to at least a restriction (18) at the holder (2).

25. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the locking slider (21) has two fingers (20) reaching through openings (19) in the holder (2) up to both sides of the bulge-like enlargement (15) on the outer conductive sleeve (3).

26. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the locking slider (21) has a support body (29) on which the fingers (20) are mounted, wherein at the support body (29) further at least two clips (22) are mounted corresponding to recesses (23) at the holder (2).

27. The coupler (1) of a coaxial plug-in connection according to claim 26, characterized in that several recesses (23) disposed in series in the locking direction are provided.

28. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that a seal (24) is provided at the support body (29) and/or at one support surface of the holder (2) attached to the support body (29).

29. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the seal (24) is formed as a seal ring disposed in a groove of the support body (29) or the support surface.

30. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the holder (2) has on its surface facing the support body (29) a recess (28) corresponding in about to the thickness and the outer contour of the support body (29).

31. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the holder (2) has a coupling guide (25) attached to a plug neck of a holder of the plug, wherein the coupling guide (25) has a seal surface or a seal.

32. The coupler (1) of a coaxial plug-in connection according to one of the previous claims, characterized in that the

holder (2) has a locking element (27) attached to a locking counterpart at the holder of the plug.